



A COMPREHENSIVE REVIEW ON THE IMPACT OF COMPRESSED SENSING IN WIRELESS SENSOR NETWORKS

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Abstract- Sensor networking is a promising technology that facilitates the monitoring of the physical world using tiny, inexpensive wireless devices that are spatially distributed across a wide region. These networks are highly constrained in power, computational capacities and memory. Incorporation of techniques based on the concept of Compressed Sensing (CS) which aims to encode sparse signals using a much lower sampling rate than the traditional Nyquist approach has revolutionized the wireless network scenarios. An exhaustive survey on the impact and applications of CS in WSN and research challenges has been presented in this paper.

Index terms: Compressed Sensing, Data Aggregation, Data Recovery, Distributed Compressed Sensing, Kronecker Compressed Sensing, Wireless Sensor Networks.